RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/602394 A

Source: 1FWO

Date Processed by STIC: 5/16/5

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RAW SEQUENCE LISTING   DATE: 05/16/2005
PATENT APPLICATION: US/10/602,394A   TIME: 14:09:46

Input Set : A:\UF-375.ST25.txt
Output Set: N:\CRF4\05122005\J602394A.raw

```
   3 <110> APPLICANT: Haskell-Luevano, Carrie
   5 <120> TITLE OF INVENTION: Novel Melanocortin Receptor Peptide Template for the
Treatment of
   6       Obesity
   8 <130> FILE REFERENCE: UF-375
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/602,394A
C--> 10 <141> CURRENT FILING DATE: 2003-06-23
  10 <160> NUMBER OF SEQ ID NOS: 43
  12 <170> SOFTWARE: PatentIn version 3.3
  14 <210> SEQ ID NO: 1
  15 <211> LENGTH: 10
  16 <212> TYPE: PRT
  17 <213> ORGANISM: Artificial Sequence
  19 <220> FEATURE:
  20 <223> OTHER INFORMATION: Chimeric peptide
  23 <220> FEATURE:
  24 <221> NAME/KEY: MISC_FEATURE
  25 <222> LOCATION: (2)..(9)
  26 <223> OTHER INFORMATION: Cyclization of this peptide
  28 <220> FEATURE:
  29 <221> NAME/KEY: MISC_FEATURE
  30 <222> LOCATION: (5)..(5)
  31 <223> OTHER INFORMATION: Xaa = DPhe
  33 <400> SEQUENCE: 1
W--> 35 Tyr Cys Arg Phe Xaa Asn Ala Phe Cys Tyr
  36 1               5                   10
  39 <210> SEQ ID NO: 2
  40 <211> LENGTH: 10
  41 <212> TYPE: PRT
  42 <213> ORGANISM: Artificial Sequence
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  45 <223> OTHER INFORMATION: chimeric peptide
  48 <220> FEATURE:
  49 <221> NAME/KEY: MISC_FEATURE
  50 <222> LOCATION: (2)..(9)
  51 <223> OTHER INFORMATION: Cyclization of this peptide
  53 <220> FEATURE:
  54 <221> NAME/KEY: MISC_FEATURE
  55 <222> LOCATION: (9)..(9)
  56 <223> OTHER INFORMATION: Xaa = diaminoproprionic acid (Dpr)
  58 <400> SEQUENCE: 2
W--> 60 Tyr Asp Ala Ala Ala Asn Ala Phe Xaa Tyr
  61 1               5                   10
  64 <210> SEQ ID NO: 3
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        66 <212> TYPE: PRT
        67 <213> ORGANISM: Artificial Sequence
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        70 <223> OTHER INFORMATION: chimeric peptide
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        74 <221> NAME/KEY: MISC_FEATURE
        75 <222> LOCATION: (2)..(9)
        76 <223> OTHER INFORMATION: Cyclization of this peptide
        78 <220> FEATURE:
        79 <221> NAME/KEY: MISC_FEATURE
        80 <222> LOCATION: (9)..(9)
        81 <223> OTHER INFORMATION: Xaa = diaminoproprionic acid (Dpr)
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W-->    85 Tyr Asp Arg Phe Phe Asn Ala Phe Xaa Tyr
        86 1               5                   10
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        91 <212> TYPE: PRT
        92 <213> ORGANISM: Artificial Sequence
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        95 <223> OTHER INFORMATION: chimeric peptide
        98 <220> FEATURE:
        99 <221> NAME/KEY: MISC_FEATURE
       100 <222> LOCATION: (2)..(9)
       101 <223> OTHER INFORMATION: Cyclization of this peptide
       103 <220> FEATURE:
       104 <221> NAME/KEY: MISC_FEATURE
       105 <222> LOCATION: (9)..(9)
       106 <223> OTHER INFORMATION: Xaa = diaminoproprionic acid (Dpr)
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       111 1               5                   10
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       115 <211> LENGTH: 10
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       117 <213> ORGANISM: Artificial Sequence
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       123 <220> FEATURE:
       124 <221> NAME/KEY: MISC_FEATURE
       125 <222> LOCATION: (2)..(9)
       126 <223> OTHER INFORMATION: Cyclization of this peptide
       128 <220> FEATURE:
       129 <221> NAME/KEY: MISC_FEATURE
       130 <222> LOCATION: (5)..(5)
       131 <223> OTHER INFORMATION: Xaa = DPhe
       133 <220> FEATURE:
       134 <221> NAME/KEY: MISC_FEATURE
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PATENT APPLICATION: US/10/602,394A

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Input Set : A:\UF-375.ST25.txt
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     136 <223> OTHER INFORMATION: Xaa = diaminoproprionic acid (Dpr)
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     141 1               5                   10
     144 <210> SEQ ID NO: 6
     145 <211> LENGTH: 10
     146 <212> TYPE: PRT
     147 <213> ORGANISM: Artificial Sequence
     149 <220> FEATURE:
     150 <223> OTHER INFORMATION:/ chimeric peptide
     153 <220> FEATURE:
     154 <221> NAME/KEY: MISC_FEATURE
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     156 <223> OTHER INFORMATION: Cyclization of this peptide
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     159 <221> NAME/KEY: MISC_FEATURE
     160 <222> LOCATION: (9)..(9)
     161 <223> OTHER INFORMATION: Xaa = diaminoproprionic acid (Dpr)
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     166 1               5                   10
     169 <210> SEQ ID NO: 7
     170 <211> LENGTH: 10
     171 <212> TYPE: PRT
     172 <213> ORGANISM: Artificial Sequence
     174 <220> FEATURE:
     175 <223> OTHER INFORMATION:/ chimeric peptide
     178 <220> FEATURE:
     179 <221> NAME/KEY: MISC_FEATURE
     180 <222> LOCATION: (2)..(9)
     181 <223> OTHER INFORMATION: Cyclization of this peptide
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     184 <221> NAME/KEY: MISC_FEATURE
     185 <222> LOCATION: (3)..(3)
     186 <223> OTHER INFORMATION: Xaa = DPhe
     188 <220> FEATURE:
     189 <221> NAME/KEY: MISC_FEATURE
     190 <222> LOCATION: (9)..(9)
     191 <223> OTHER INFORMATION: Xaa = diaminoproprionic acid (Dpr)
     193 <400> SEQUENCE: 7
W--> 195 Tyr Asp Xaa Arg Trp Asn Ala Phe Xaa Tyr
     196 1               5                   10
     199 <210> SEQ ID NO: 8
     200 <211> LENGTH: 11
     201 <212> TYPE: PRT
     202 <213> ORGANISM: Artificial Sequence
     204 <220> FEATURE:
     205 <223> OTHER INFORMATION: chimeric peptide
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Input Set : A:\UF-375.ST25.txt
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        209 <221> NAME/KEY: MISC_FEATURE
        210 <222> LOCATION: (2)..(10)
        211 <223> OTHER INFORMATION: Cyclization of this peptide
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        214 <221> NAME/KEY: MISC_FEATURE
        215 <222> LOCATION: (10)..(10)
        216 <223> OTHER INFORMATION: Xaa = diaminoproprionic acid (Dpr)
        218 <400> SEQUENCE: 8
W-->    220 Tyr Asp His Arg Phe Phe Asn Ala Phe Xaa Tyr
        221 1               5                   10
        224 <210> SEQ ID NO: 9
        225 <211> LENGTH: 11
        226 <212> TYPE: PRT
        227 <213> ORGANISM: Artificial Sequence
        229 <220> FEATURE:
        230 <223> OTHER INFORMATION  chimeric peptide
        233 <220> FEATURE:
        234 <221> NAME/KEY: MISC_FEATURE
        235 <222> LOCATION: (2)..(10)
        236 <223> OTHER INFORMATION  Cyclization of this peptide
        238 <220> FEATURE:
        239 <221> NAME/KEY: MISC_FEATURE
        240 <222> LOCATION: (10)..(10)
        241 <223> OTHER INFORMATION: Xaa = diaminoproprionic acid (Dpr)
        243 <400> SEQUENCE: 9
W-->    245 Tyr Asp His Phe Arg Trp Asn Ala Phe Xaa Tyr
        246 1               5                   10
        249 <210> SEQ ID NO: 10
        250 <211> LENGTH: 11
        251 <212> TYPE: PRT
        252 <213> ORGANISM: Artificial Sequence
        254 <220> FEATURE:
        255 <223> OTHER INFORMATION: chimeric peptide
        258 <220> FEATURE:
        259 <221> NAME/KEY: MISC_FEATURE
        260 <222> LOCATION: (2)..(10)
        261 <223> OTHER INFORMATION: Cyclization of this peptide
        263 <220> FEATURE:
        264 <221> NAME/KEY: MISC_FEATURE
        265 <222> LOCATION: (4)..(4)
        266 <223> OTHER INFORMATION: Xaa = DPhe
        268 <220> FEATURE:
        269 <221> NAME/KEY: MISC_FEATURE
        270 <222> LOCATION: (10)..(10)
        271 <223> OTHER INFORMATION: Xaa = diaminoproprionic acid (Dpr)
        273 <400> SEQUENCE: 10
W-->    275 Tyr Asp His Xaa Arg Trp Asn Ala Phe Xaa Tyr
        276 1               5                   10
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    279 <210> SEQ ID NO: 11
    280 <211> LENGTH: 18
    281 <212> TYPE: PRT
    282 <213> ORGANISM: Artificial Sequence
    284 <220> FEATURE:
    285 <223> OTHER INFORMATION: chimeric peptide
    288 <220> FEATURE:
    289 <221> NAME/KEY: MISC_FEATURE
    290 <222> LOCATION: (1)..(1)
    291 <223> OTHER INFORMATION: Xaa = acetyl (Ac)
    293 <220> FEATURE:
    294 <221> NAME/KEY: MISC_FEATURE
    295 <222> LOCATION: (5)..(5)
    296 <223> OTHER INFORMATION: Xaa = norleucine (Nle)
    298 <220> FEATURE:
    299 <221> NAME/KEY: MISC_FEATURE
    300 <222> LOCATION: (7)..(13)
    301 <223> OTHER INFORMATION: Cyclization of this peptide
    303 <220> FEATURE:
    304 <221> NAME/KEY: MISC_FEATURE
    305 <222> LOCATION: (14)..(14)
    306 <223> OTHER INFORMATION: Xaa = diaminoproprionic acid (Dpr)
    308 <400> SEQUENCE: 11
W--> 310 Xaa Ser Tyr Ser Xaa Tyr Asp Arg Phe Phe Asn Ala Phe Xaa Tyr Lys
    311 1               5                   10                  15
    314 Pro Val
    318 <210> SEQ ID NO: 12
    319 <211> LENGTH: 14
    320 <212> TYPE: PRT
    321 <213> ORGANISM: Artificial Sequence
    323 <220> FEATURE:
    324 <223> OTHER INFORMATION : chimeric peptide
    327 <220> FEATURE:
    328 <221> NAME/KEY: MISC_FEATURE
    329 <222> LOCATION: (1)..(1)
    330 <223> OTHER INFORMATION: Xaa = acetyl (Ac)
    332 <220> FEATURE:
    333 <221> NAME/KEY: MISC_FEATURE
    334 <222> LOCATION: (5)..(5)
    335 <223> OTHER INFORMATION: Xaa = norleucine (Nle)
    337 <400> SEQUENCE: 12
W--> 339 Xaa Ser Tyr Ser Xaa Glu His Ala Ala Ala Gly Lys Pro Val
    340 1               5                   10
    343 <210> SEQ ID NO: 13
    344 <211> LENGTH: 13
    345 <212> TYPE: PRT
    346 <213> ORGANISM: Artificial Sequence
    348 <220> FEATURE:
    349 <223> OTHER INFORMATION: chimeric peptide
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/16/2005
PATENT APPLICATION: US/10/602,394A   TIME: 14:09:47

Input Set : A:\UF-375.ST25.txt
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5
Seq#:2; Xaa Pos. 9
Seq#:3; Xaa Pos. 9
Seq#:4; Xaa Pos. 9
Seq#:5; Xaa Pos. 5,9
Seq#:6; Xaa Pos. 9
Seq#:7; Xaa Pos. 3,9
Seq#:8; Xaa Pos. 10
Seq#:9; Xaa Pos. 10
Seq#:10; Xaa Pos. 4,10
Seq#:11; Xaa Pos. 1,5,14
Seq#:12; Xaa Pos. 1,5
Seq#:13; Xaa Pos. 1,5
Seq#:14; Xaa Pos. 1,5
Seq#:15; Xaa Pos. 1,5
Seq#:16; Xaa Pos. 1,5,8
Seq#:17; Xaa Pos. 1,5,9
Seq#:18; Xaa Pos. 1,5,10
Seq#:19; Xaa Pos. 1,2
Seq#:20; Xaa Pos. 1,2
Seq#:21; Xaa Pos. 1,2,5
Seq#:22; Xaa Pos. 1,2,6
Seq#:23; Xaa Pos. 1,2,7
Seq#:24; Xaa Pos. 4,10
Seq#:25; Xaa Pos. 10
Seq#:26; Xaa Pos. 4,10
Seq#:27; Xaa Pos. 4,10
Seq#:28; Xaa Pos. 4,10
Seq#:29; Xaa Pos. 4,10
Seq#:30; Xaa Pos. 3,4,10
Seq#:31; Xaa Pos. 10
Seq#:32; Xaa Pos. 4,10
Seq#:33; Xaa Pos. 4,10
Seq#:34; Xaa Pos. 4,10
Seq#:35; Xaa Pos. 4,10
Seq#:36; Xaa Pos. 4,10
Seq#:37; Xaa Pos. 4,10
Seq#:38; Xaa Pos. 4,10
Seq#:39; Xaa Pos. 4,6,10
Seq#:40; Xaa Pos. 4,6,10
Seq#:41; Xaa Pos. 4,6,10
Seq#:42; Xaa Pos. 4,6,10
Seq#:43; Xaa Pos. 4,9,10

VERIFICATION SUMMARY DATE: 05/16/2005
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Output Set: N:\CRF4\05122005\J602394A.raw

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:35 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:934 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:1024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:1054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:1084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:1149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
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